WP-588 WiFi Phone

User Manual

Version 1.0

Table of Contents

Chapter 1 Overview of the WiFi Phone……3
1.1 Introduction…..……...…..3
1.1.1 Package Content
1.2 Front Panel and Keypad…… ……. 4
1.3 Keypad function description…….…….. 5
1.4 Main Screen…….……. 6
1.5 Entering and Editing text…….……... 6
1.6 Making a Phone Call…….……... 7
1.6.1 Entering the phone number manually
1.6.2 Using the Phone Book
1.6.3 Using the Call History
1.6.4 Using the Quick Setting
1.6.5 Redial a Number
1.6.6 Answering a Call/ Reject a Call
1.6.7 Holding a Call / Transferring a Call
1.7 Main menu……..…….....9

Chapter 2 Call Settings……..10
2.1 SIP Settings…….……..11
2.2 Call Waiting……..13
2.3 Call Forward…….13
2.4 NAT Settings…….…….14
2.5 Audio Settings……...14
2.6 DTMF Tone……...14
2.7 Skype Gateway…….14

Chapter 3 Message……..15
3.1 Message……...……. 15

Chapter 4 Network Settings……..……15
4.1 IP Settings……...……. 16
4.2 WLAN Settings…… 16
4.3 User Certificate…….19
4.4 Root Certificate…….21

Chapter 5 Skype Buddy List….……...22

Chapter 6 Phone Book……...22

Chapter 7 IP Camera…….……22
7.1 IP Camera Setting……..……...…22
7.2 IP Camera Play....…….……23

Chapter 8 Phone Settings…….. 24
8.1 Vibrator…….24
8.2 Ringer…..……..……24
8.3 Ring Tones…….……... 24
8.4 Ringtone Volume…….……..24
8.5 Backlight…….……...24
8.6 Web Configuration…….……..24

Chapter 9 Call History…….……...…26
9.1 Call history…….…...26

Chapter 10 Tools…….……..…….26
10.1 Firmware Version…….…….27
10.2 HTTP Server…….…….……27
10.3 Firmware Upgrade…….…..……..27
10.4.1 System Time ..…….…….…….…..…….28
10.4.2 SNTP Setting..…….…..…….…..…….29

Chapter 1 Overview of the WiFi Phone

1.1 Introduction

Congratulations on your purchase of our WiFi Phone. This is a versatile WiFi Pocket Device. Features include VoIP, IP Surveillance, IPTV and Internet Radio. It can also make and receive Skype calls without carrying PC.

1.1.1 Package Content

The package contains the following items:
△ One WiFi Phone
△ One Battery *please charge the battery 8 hours before the first use
△ One USB Cable
△ One USB Adapter
△ User's Manual

If any of the above items are damaged or missing, please contact your dealer immediately.

1.2 Front Panel and Keypad

Figure 1.2.1 Front Panel and Keypad

1.3 Keypad function description

	Key	Description
		Power on/off and End key Display IP address key Used to end or reject a call, or to return to standby mode.
1		**Answer/Send key** Used to answer a call or dial a number.
2		**Menu and select key** Used to enter into menu and move up and down to select items In Input Mode, you can switch [123], [abc] and [ABC].
3		**Left key: Phone Book and Select key** To search or add or delete the data of phone book Press the button to go back to main menu
4		**Right key: Quick Setting and Back key** To enter Quick Setting menu
	0-9	**Number key** Used for entering numbers and characters.
5		**Unlock Key** Used to unlock the key ; Pound key: In entry mode Skype Buddy List : Press to retrieve Skype Buddy List.
6		**Asterisk key** In entry mode, use the asterisk key to enter ‘**.**’, ‘**@**’ and ‘**:**’,’*****’

Table 1.3.1: Keypad function description

1.4 Main Screen

After powering on, the phone enters standby mode, with the main screen displayed as shown in Figure 1.3.1

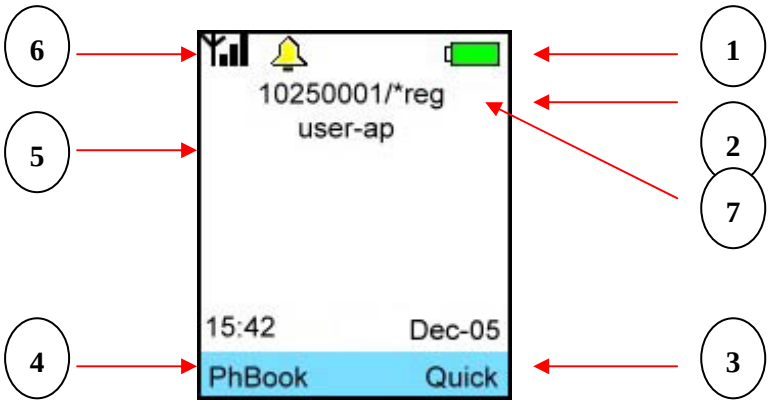


Figure 1.4.1

1 Battery icon
2 User name
3 Right soft key tab
4 Left soft key tab
5 AP information:
Showing which AP you are connecting
6 Signal strength icon
7 Registration status indicator: when SIP registration is enabled, the *reg indicates WIFI PHONE has registered to the SIP Registrar successfully. If WIFI PHONE fails to register to the SIP Registrar, a rotating line will appear at the same place.

1.5 Entering and Editing text

In many situations you need to enter numbers and characters in an entering field. Please refer to the following guidelines:

• Press to switch between upper case character, lower case character and numeric mode, with the icon ABC, abc or 123 shown at the middle of the bottom of LCD screen respectively.

• In enter mode, Press to enter '.' '@' or ':' by pressing it once, twice or three times respectively.

• In ABC or abc mode, press numeric key ‘1’ to enter a space or icons as follows: “ . , $ % & _”
• Press to move the cursor.

• Press to clear the number/character that the cursor points to.

• Press to abort the editing.

1.6 Making a Phone Call

1.6.1 Entering the phone number manually

You can enter phone number (needing SIP Proxy Server and SIP Registrar) or SIP URL at the entering line. Then press to make a phone call. Please refer to
Figure 1.6.1

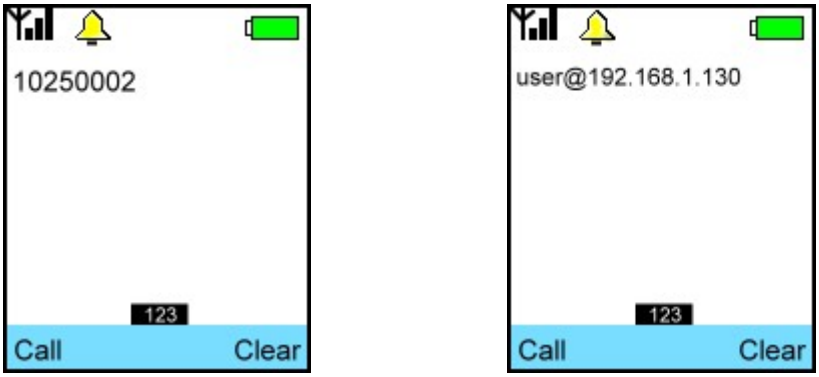


Figure 1.6.1

1.6.2 Using the Phone Book

You can search the Phonebook by name to get the phone number/SIP URL and make a call. Please refer to Chapter 6 Phone Book

1.6.3 Using the Call History

You can find the phone number/SIP URL from the Call History to make a phone call. Please refer to Chapter 9.1 Call History

1.6.4 Using the Quick Setting

You can select several options of the major functions from “Quick

Setting". Such as Site Survey, Key Lock, and change phone standby modes: General Mode/ Vibrator Mode/ Ringer Mode/ Silent Mode.

1.6.5 Redial a Number

At the standby mode, press The list of placed calls is displayed. The latest dialed number is highlighted, so you can redial this number directly by pressing the left soft key.

1.6.6 Answer a Call/ Reject a Call

To answer a call, press to accept. You can use key to adjust the volume. To reject a call, press Please refer to Figure 1.6.2

Figure 1.6.2

Caller ID will be shown on screen as Figure 1.6.2
Caller will hear " Ring back tone" as soon as the phone is calling out
Receiver will hear " Ring tone " as soon as a call is coming
If the receiver is busy, caller will hear busy tone back from receiver

1.6.7 Hold a Call / Transfer a Call

When talking, press to hold the call.

To resume the held call, press again. Please refer to Figure 1.6.3

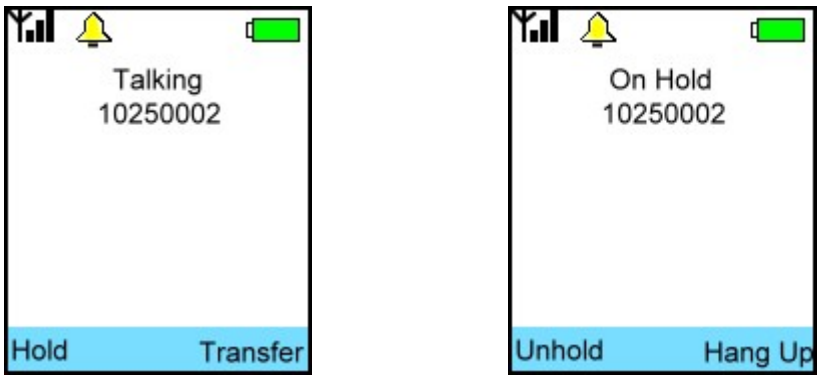


Figure 1.6.3 Hold and resume a call

To transfer the call, press and press the third party's number, then press to make call out. Please refer to Figure 1.6.3

1.7 Main menu

Figure 1.7 provides information about accessing the main menu and using its features.

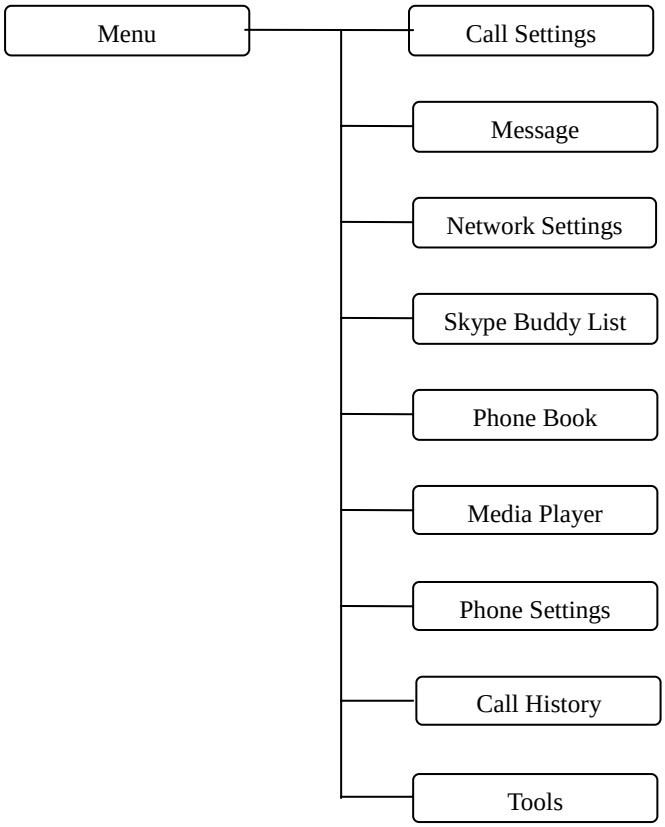


Figure 1.7.1

Chapter 2 Call Settings

Figure 2.1.1 shows the architecture of the Call Settings menu.

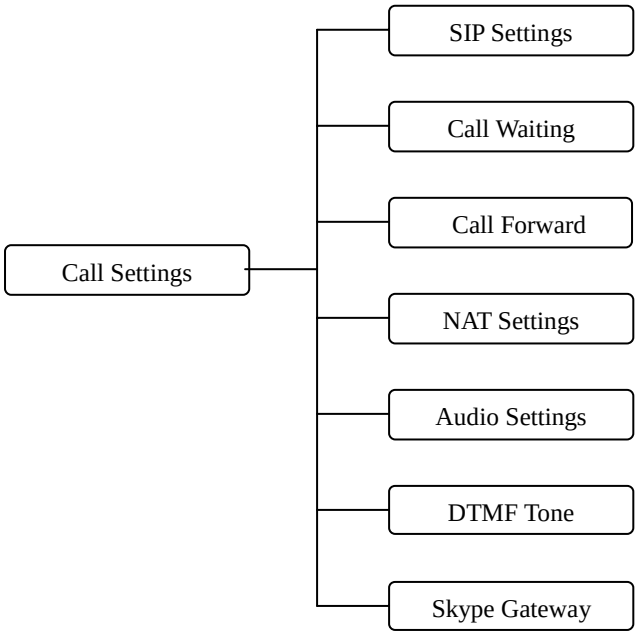


Figure 2.1.1

2.1 SIP Settings

Figure 2.1.2 shows the architecture of the SIP Settings menu.

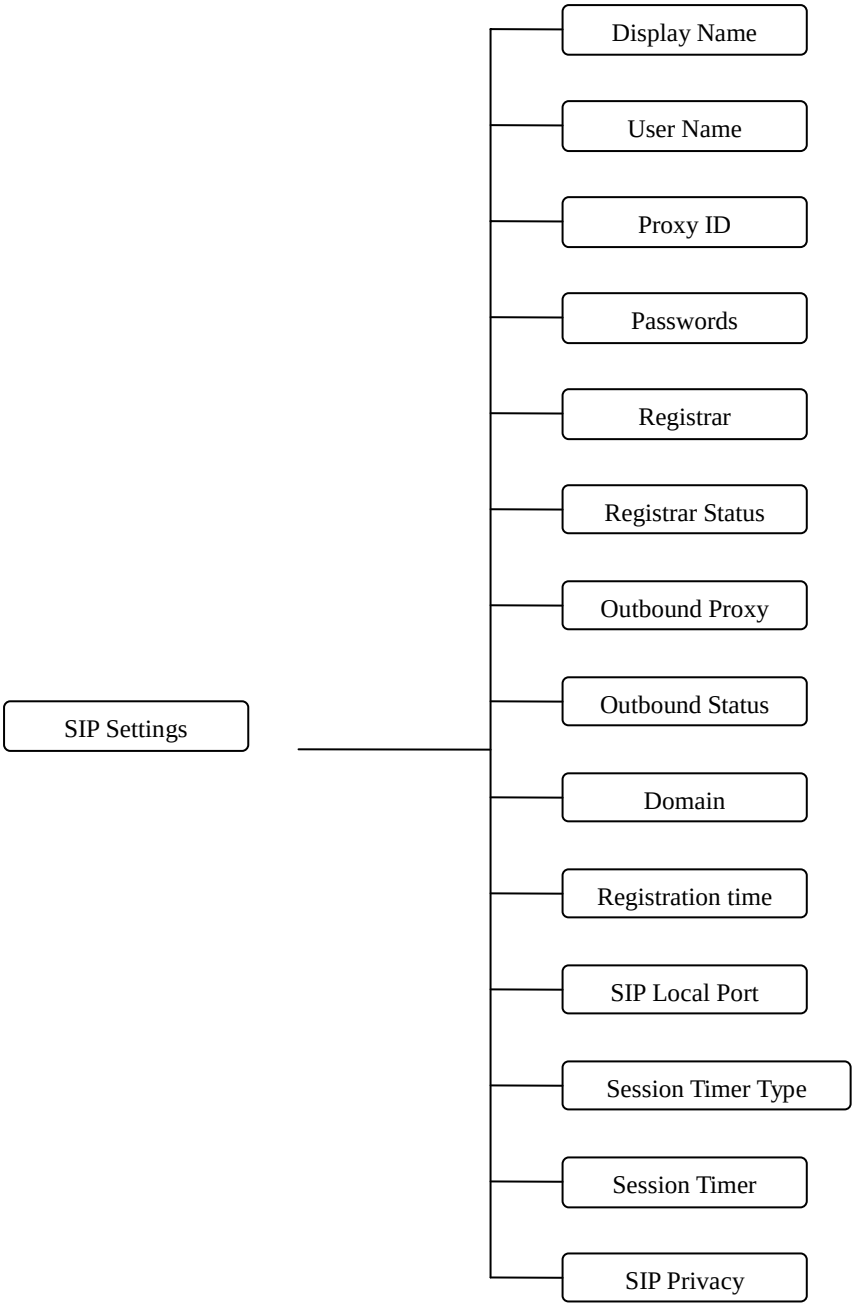

SIP Settings
Display Name
User Name
Proxy ID
Passwords
Registrar
Registrar Status
Outbound Proxy
Outbound Status
Domain
Registration time
SIP Local Port
Session Timer Type
Session Timer
SIP Privacy

Figure 2.1.2

SIP Settings menu architecture

In the main Menu, press to enter and press scroll to Call Settings and then select **SIP Settings**. Then press to select it.

The SIP Settings menu is displayed, as shown in Figure 2.1.3

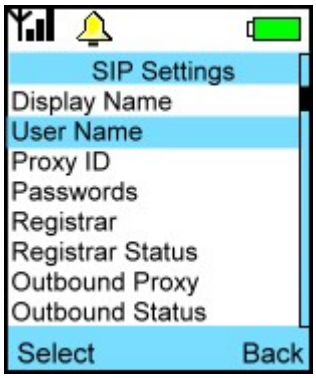


Figure 2.1.3

1 Display Name

Enter display name here.

2 User Name

Enter SIP user name/phone number here.

3 Proxy ID

Enter Proxy ID here, for example: abcd@aaa.bbb.ccc.ddd

4 Passwords

Enter password here.

5 Registrar

Enter Proxy server's URL and port number here.
For example, 210.65.147.201:5060

6 Registrar Status

You can enable or disable the WIFI PHONE to register
To call through proxy server, "enable" needs to be set

7 Outbound Proxy

Enter outbound Proxy server's URL and port number here.
For example: 210.65.147.201:5060

8 Outbound /Proxy Status
You can enable or disable the WIFI PHONE to use the outbound proxy server.To call through outbound proxy server, “enable” needs to be set

9 Domain
SIP Domain, SIP server URL
For example: limss.cht.com.tw:5060

10 Registration Time
Enter registration time here.
For example: 600

11 SIP Local Port
Set the port of SIP signaling. Default is 5060 *(In NAT Mode, Please use the local port between 5061~7800)

12 Session Timer Type
Set enable/ disable/ invite or update Session Timer

13 Session Timer
Enter the SIP Session Timer;

14 SIP Privacy
Enable SIP Privacy or Disable it

2.2 Call Waiting
Enable or Disable
When “enable” is set on, during busy, the alert tone will ring when a call is coming

2.3 Call Forward
Unconditional / Busy / No Answer / No Answer Timeout Forward
Set the phone number here to enable call forward.
Unconditional---all incoming calls will be forwarded
Busy / No answer---the call can be forwarded to third party when the call can’t be answered under receiver is busy or no answer

2.4 NAT Settings

NAT Traversal (for service provider reference)--- None /STUN/Static IP
For inter-working with some NAT-unfriendly VoIP system (server or gateway),which can not detect the phone behind NAT, you may need to configure your phone to use the NAT external IP/Port.
For such environment, we provide 2 methods to get your NAT external IP/Port

1. Auto detect by STUN

(You have to contact your ISP to get a STUN URL before setup)
Step 1: Enter Menu to select NAT Settings
Step 2: Select “STUN Server”
Step 3: Input STUN_URL address (contact your ISP to get)
For example, 192.168.1.100 or stun.mysip.com

2. Assign external IP by yourself

Step 1: Enter Menu to select Nat Settings
Step 2: Select “External_IP”
Step 3: Input your NAT EXTERNAL IP address
For example: 192.168.1.100

2.5 Audio Settings

Audio Codec : default/ G.723/G.729/G.711u/G.711a/ iLBC20
RTP Port: Set RTP Port here
VAD: Disable /Enable

2.6 DTMF Tone

Off / RFC-2833 / Inband
To follow receiver’s support spec., set DTMF Tone here

2.7 Skype Gateway

Enter your e-link Skype Gateway’s SIP account here
For example: 10250003
* eLink family provides connections between SIP and other protocols for different user groups, such as SIP, Skype,etc. to Communicate seamlessly.

Chapter 3 Message

3.1 Message

You can send and delete messages here. Also, you can find out the records of Inbox / Outbox. To send a message, press to enter Menu and scroll to Message. Then select Send Message to input your message and press to send out or press to clear it.

The Message menu is displayed, as shown in Figure 3.1.1

Figure 3.1.1

Chapter 4 Network Settings

Network Settings

This chapter provides information about accessing the Network Settings menu and using its features. Figure 4.1.1 shows the architecture of the Network Settings menu.

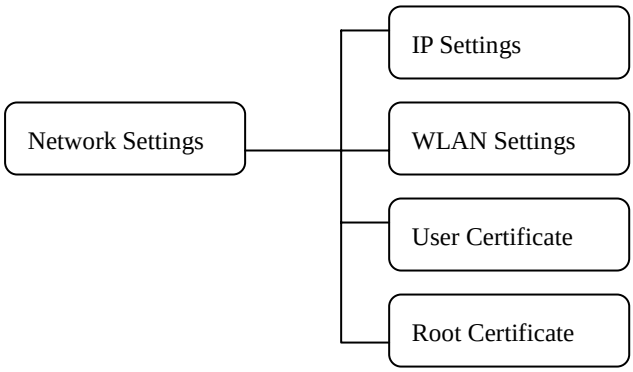


Figure 4.1.1 Network Settings menu

In the main Menu, press to scroll to **Network Settings** and press to select it. The Network Settings menu is displayed, as shown in Figure 4.1.2

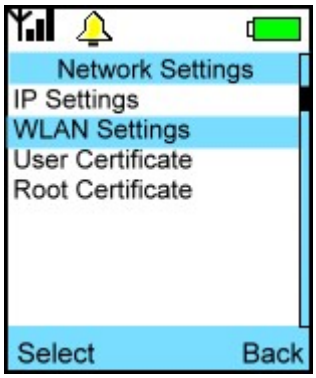


Figure 4.1.2 IP Settings menu

4.1 IP Settings

IP Status

Show current status of Network settings including MAC address, DHCP status, IP address, Subnet Mask and default gateway.

DHCP

You can get dynamic IP address, default gateway and DNS server IP address from a DHCP server if you enable the DHCP function. If you want to configure these settings manually, please disable this DHCP function.

4.2 WLAN Settings

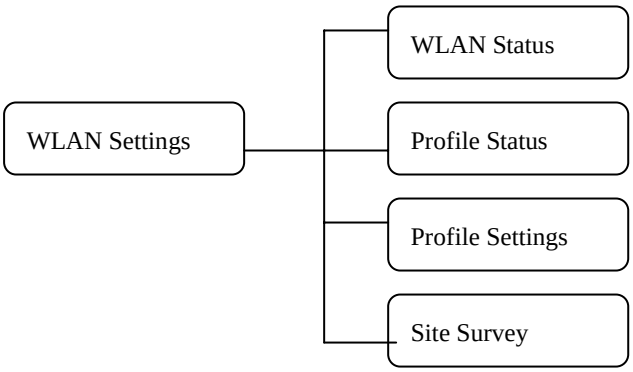


Figure 4.1.3 WLAN Settings menu

WLAN Status
You can disable it or you can enable it with 64, 128 bit key or WPA.

Profile Status
The list of the available AP accesses is shown here.

Profile Settings
You can have two operation models to do profile settings. One is to set on WiFi phone, the other one is to set on Web Configuration
Find out each available AP to Edit/Delete/Activate or see the Detail
To add a new profile, press “Unused ” and press to enter the settings:
“Profile Name” , “ESSID”, and to set if any encryption is requested form AP.
Please refer to Figure 4.1.4

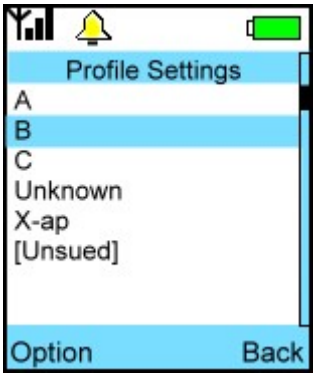


Figure 4.1.4

Site Survey
Press to enter the “Quick Setting” menu and use to scroll to “Site Survey”. Press to select and initiate site survey.

To set Profile on Web Configuration:

1. Enter Web page
2. Select Wireless Setting
3. To edit “Profile Name” & “ESSID”
4. Apply

A. Authentication Setting

Step 1: Please check Access Point uses either “Open” or “Shared Key” of the WEP Authentication

Step 2: Please set the status: “Open” or “Shared Key” into menu “Authentication”

After the setting, please set steps in following “B”.

B. WEP Setting

Step 1: If the AP is “Open” of the WEP Authentication,
set menu “Encryption Status” to “Disable”
Then, do “Site Survey”

Step 2: If the AP is “Shared Key” of the WEP Authentication,
check AP uses either 64 bits or 128 bits keys
Then, select an unused entry to set menu “Encryption Status”

Step 3: If one of the WEP 64 or WEP 128 is selected,

set into menu “WEP Key Settings”

For example:
You may enter 64bits/Key#1 into menu “WEP Key Settings”
If you selected 64/1 in menu “Encryption Status”,
For “64-Bit” encryption, key length is 10 and for “128-Bit ”,
key length is 26.
The key format is constructed in Hex.
For example,
“1234567890”
“1234567890abcdef1234567890”

C. WPA-PSK Setting

If the AP has both WEP and WPA-PSK function, you can select one of them to set. For WPA-PSK Setting, please set as:

Step 1: Set ESSID
Step 2: Set “WPA-PSK” to “Enable”
Step 3: Input the passphrase in “Passphrase”
Step 4: Apply

D. WPA-EAP/TLS Setting

This mode needs both [User Certificate] and [Root Certificate].

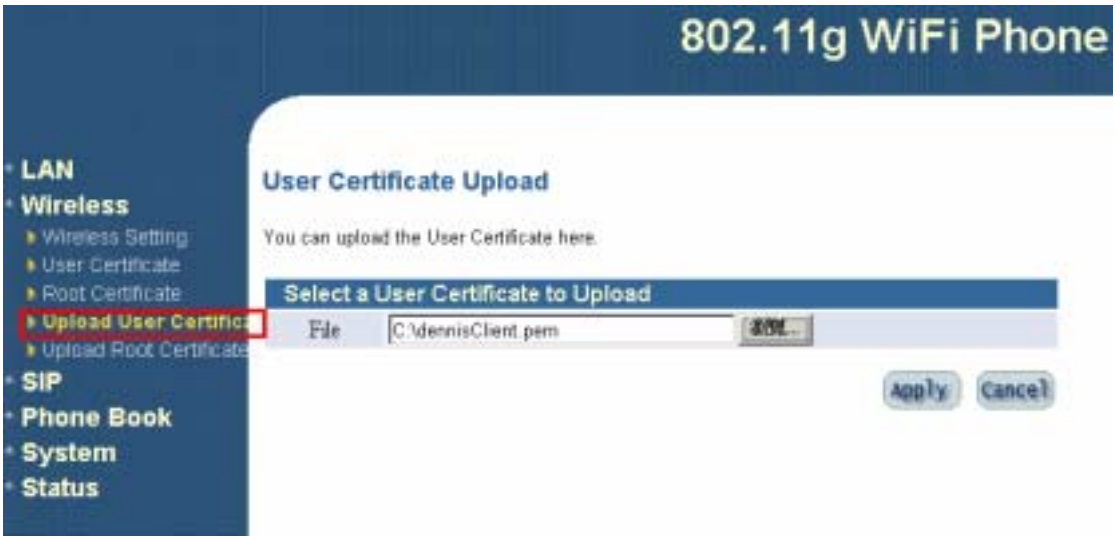
Step 1: Set ESSID
Step 2: Select [User Certificate]
Step 3: Input User ID
Step 4: Input User Password
Step 5: Select [Root Certficate]

E. WPA-EAP/TTLS Setting

This mode needs [Root Certificate] only.

Step 1: Set ESSID
Step 2: Input User ID of the User Certificate
Step 3: Input User Password of the User Certificate
Step 4: Select [Root Certficate]

4.3 User Certificate

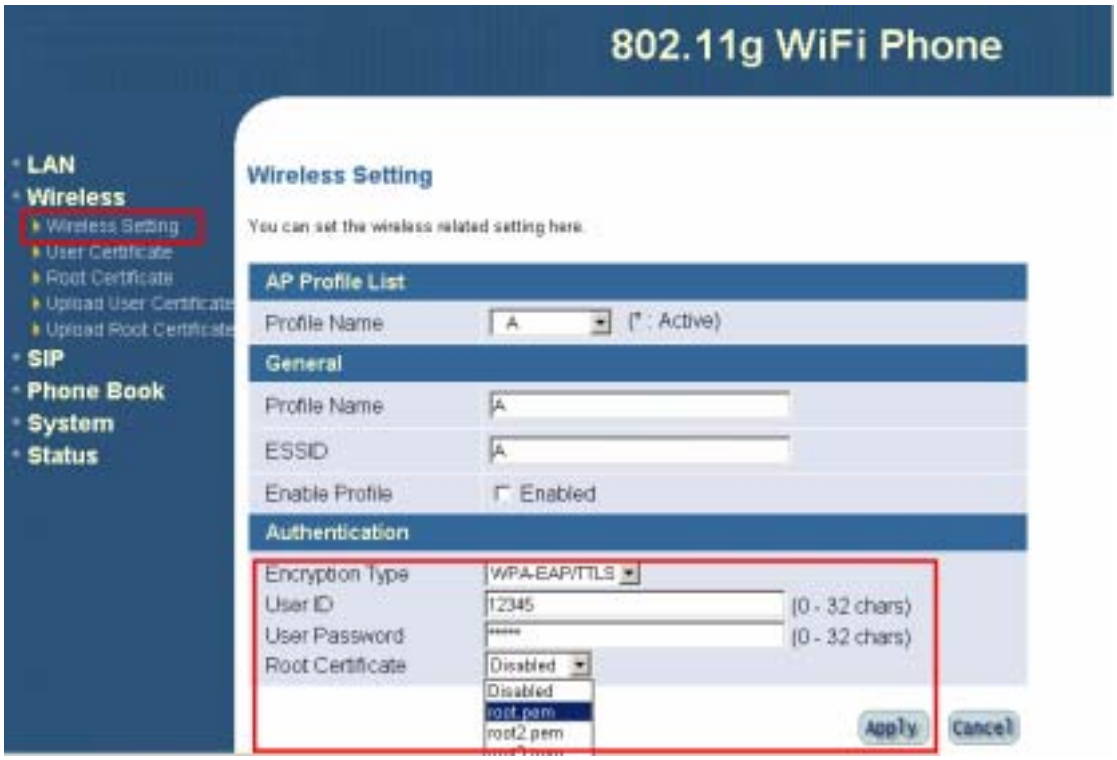


When “User Certificate” is requested by radius server, settings on Web configuration is needed as follows,

1. Enter Web page
2. Select “Upload User Certificate”
3. To link the file which is provided by MIS
4. Apply
5. After uploading, reboot WiFi phone.
6. Select “Wireless Setting” of Web page

7. To set encryption type into “ WPA-EAP/TLS ”
8. To choose user certificate’s file name
9. To set User ID & Password (provided by MIS)
10. To set Root Certificate if it’s also requested by radius server
11. Apply

4.4 Root Certificate



When “User Certificate” is requested by radius server, settings on Web

configuration is needed as follows,
1. Enter Web page
2. Select “Upload Root Certificate”
3. To link the file which is provided by MIS
4. Apply
5. After uploading, reboot WiFi phone.
6. Select “Wireless Setting” of Web page
7. To set encryption type into “ WPA-EAP/TTLS ”
8. To set User ID & Password (provided by MIS)
9. To set “Root Certificate” if it’s also requested by radius server
10. Apply

Chapter 5 Skype Buddy List

Please refer to Skype gateway
Note: to make a Skype call from WiFi Phone, you need to install SIP-Skype Gateway software (eLink) in your PC.

To get a buddy list from Skype:

1. Enter “Phone Book”
2. Select “Skype Buddy List”
3. Connect with Skype to attain the buddy list
4. Select a person from your contact list to make a call

Chapter 6 Phone Book

You can press to enter “Phone Book”. You can Search /Add / Delete the contact list and check the phone book capacity, or make Speed Dial call (up to 9 sets)

Chapter 7 IP Camera

7.1 IP Camera Settings

This chapter provides information about accessing the IP Canera server which can be used as IP Surveillance.

1. Enter your IP camera server address into “Set#num “Figure 7.1.1.

Figure 7.1.1

2.After the setting finished, Please press “Apply”. Figure 7.1.2

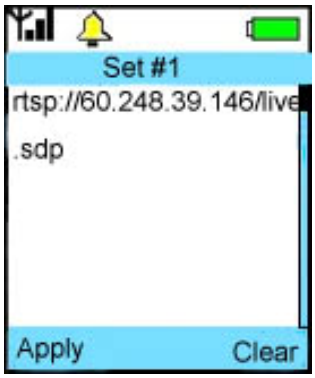


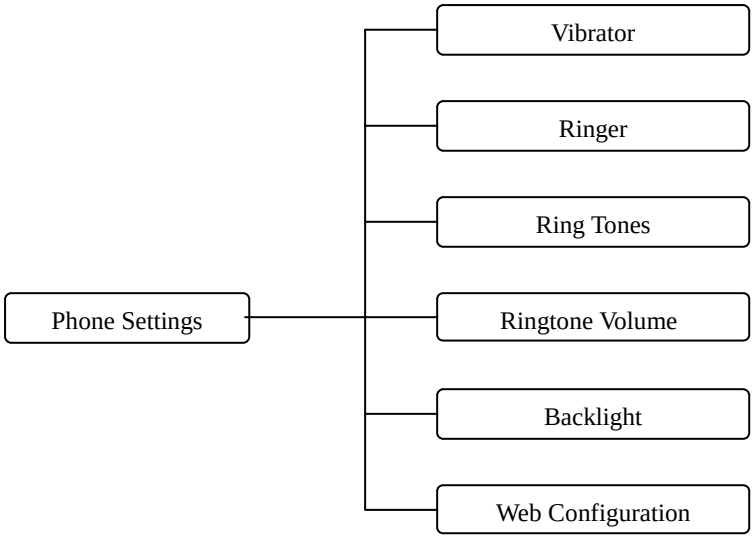
Figure 7.1.2

7.2 IP Camera Play

1. Select “Play #num” to catch the real time image from your setting. Figure 7.2.1 shows the displayed image of IP Camera.

Figure 7.2.1

Chapter 8 Phone Settings



8.1 Vibrator
Enable or disable the vibrator

8.2 Ringer
Enable or disable the ringer here.

8.3 Ring Tones
You can select from the 17 ringer melodies from Melody 1 to Melody 17.

8.4 Ringtone Volume
You can change ring tone volume here from 1-5 levels.

8.5 Backlight
Turn off the backlight or initiate it in interval from 5/10/20 seconds

8.6 Web Configuration
Enable or disable the web configuration here.
Enter Web Configuration procedure:
1.Press to see IP address; ex: http://192.168.1.130
2.open MSIE and input the URL: http://192.168.1.130
3. Input user name and password

User name: admin
Password: 1234
4. Enter into Web Configuration Page

5. Complete settings, press “ Apply ”

Chapter 9 Call History

9.1 Call History

Figure 9.1.1 shows the architecture of Call History menu.

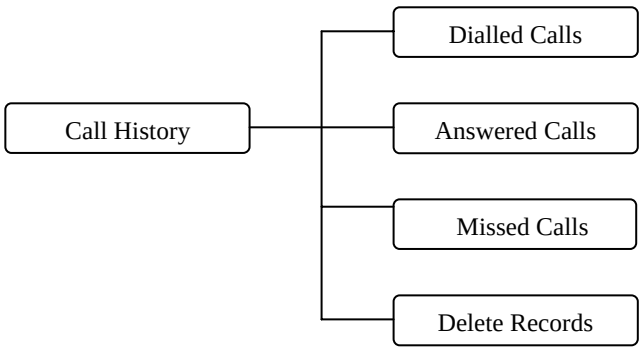


Figure 9.1.1

You can find out all the records of Dialled /Answered/Missed/ Delete Records

Chapter 10 Tools

Firmware Settings

This chapter provides information about accessing the Firmware Settings menu and using its features. Figure 9.1.1 shows the architecture of the Firmware Settings menu.

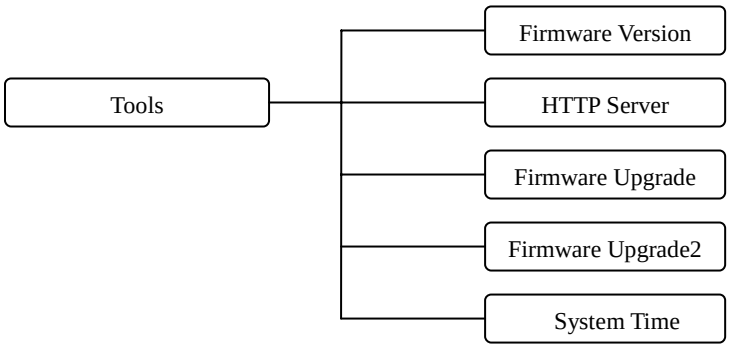


Figure 10.1.1

In the main menu, press to scroll to **Tools** and press to select it.
The system time menu is displayed, as shown in Figure 10.1.2

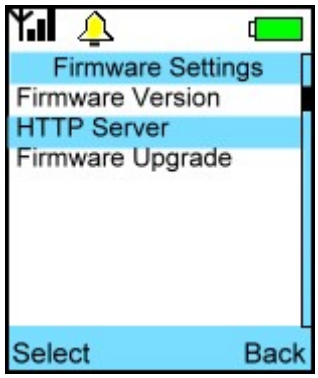


Figure 10.1.2

10.1 Firmware Version

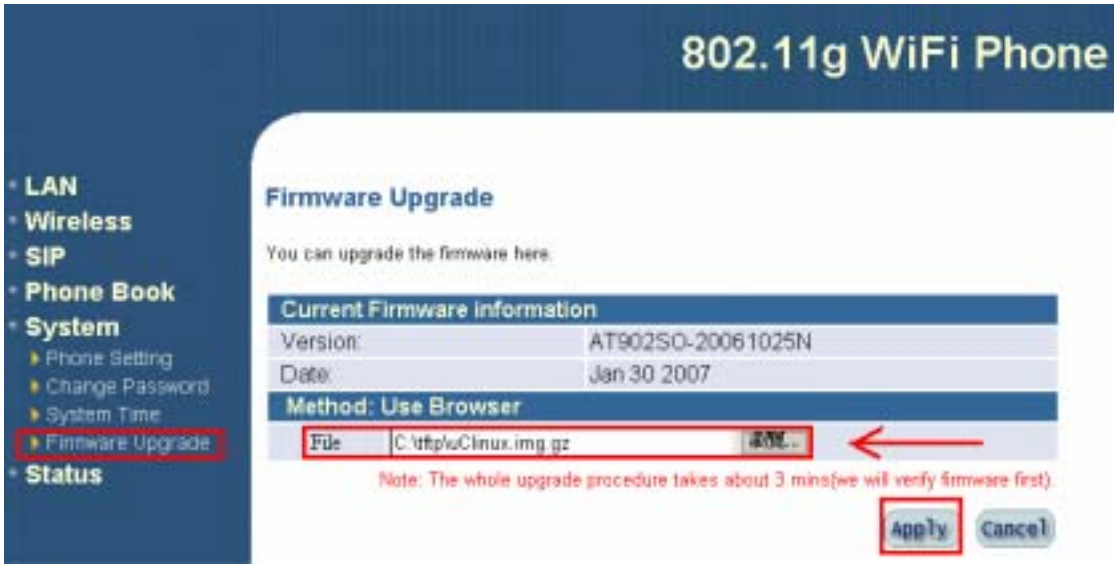
You can check the current firmware version here.

10.2 HTTP Server

Enter your HTTP server here. For example: 192.168.1.3

10.3 Firmware Upgrade/ Firmware Upgrade2

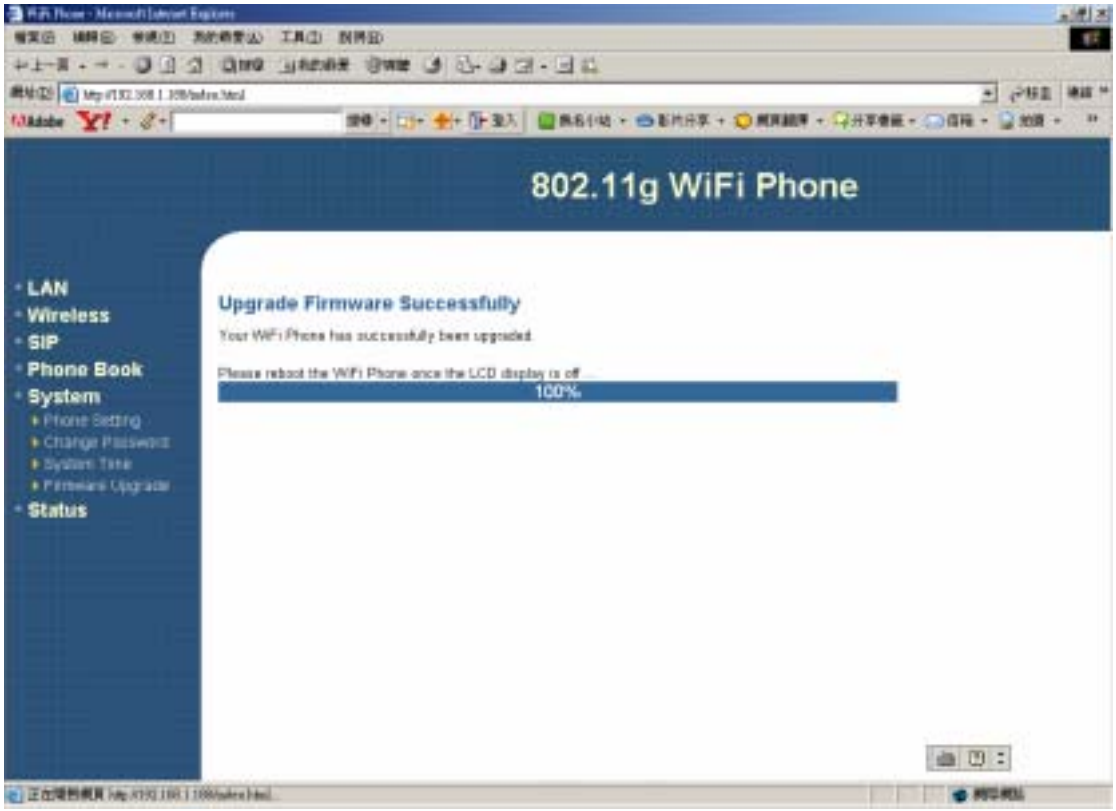
A. To upgrade from Web Configuration



1. Enter into Web Configuration Page

2. Choose “ Firmware Upgrade ”
3. To use “ browser ” to link the upgrade file
Notice: 1. Please put the upgrade file under C:\ or D:\
2. Don’t Put the upgrade file under Desktop
3. The file name must be uClinux.img.gz or fs.jffs2
4. Press “Apply ”

After the upgrade process is successfully finished, you will receive the message as follows:



B. To upgrade on WiFi phone “ Firmware Upgrade settings ”
1. To download the upgrade file on HTTP Server
2. To set “ HTTP Server IP address ” on phone
3. Select “Yes” of “ Firmware Upgrade ” to upgrade the firmware version or “No” to cancel.

10.4.1 System Time

In the main menu, press to scroll to **System Time** and press to select it. The system time menu is displayed, as shown in Figure 10.1.3

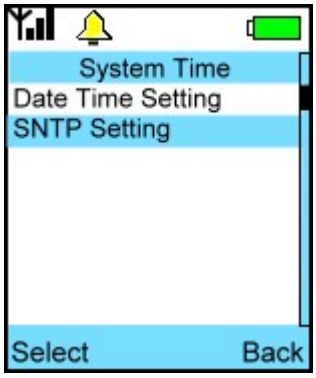


Figure 10.1.3 System Time menu

Date Time Setting
You can set time and date in this submenu.

10.4.2 SNTP Setting

Time Zone Setting
This submenu includes Time Zone and Daylight Saving configuration. You can select the time zone in Time Zone Setting which you are located from the
time zone list. You can disable or enable the daylight saving function.
SNTP Status
Enable or disable the SNTP here.
SNTP Server 1 to 2
You can set the IP address of SNTP server 1 to server 2 here.